

10/923,271

=>

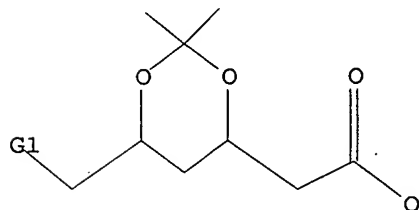
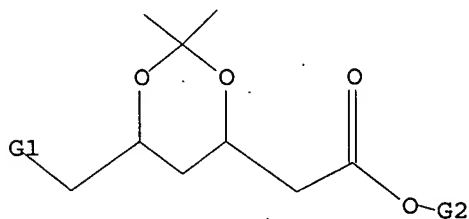
Uploading C:\Program Files\Stnexp\Queries\164.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 C, CN, OH

G2 H, Cs, Fr, K, Li, Na, Rb

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 18:15:12 FILE 'CASREACT'

SCREENING COMPLETE - 11286 REACTIONS TO VERIFY FROM

442 DOCUMENTS

100.0% DONE 11286 VERIFIED

133 HIT RXNS

23 DOCS

SEARCH TIME: 00.00.04

L2 23 SEA SSS FUL L1 ( 133 REACTIONS)

=> s l2 and base

36298 BASE

L3 0 L2 AND BASE

=> s l2 and ( nmm or dmap or base)

TOh

14/01/2008

10/923,271

63 NMM  
1015 DMAP  
36298 BASE

L4 0 L2 AND ( NMM OR DMAP OR BASE)

=> s l2 and acid chloride

225217 ACID

119612 CHLORIDE

6732 ACID CHLORIDE

(ACID(W)CHLORIDE)

L5 1 L2 AND ACID CHLORIDE

=> d

L5 ANSWER 1 OF 1 CASREACT COPYRIGHT 2008 ACS on STN

RX(47) OF 265 - REACTION DIAGRAM NOT AVAILABLE

=> d 1-10

L5 ANSWER 1 OF 1 CASREACT COPYRIGHT 2008 ACS on STN

RX(47) OF 265 - REACTION DIAGRAM NOT AVAILABLE

=> s l1 and ( nmm or dmap or base)

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> s l1 and base

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> s l1 and py<2002

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID

The query entered contains both search terms created by structure-building or screen commands and text search terms. L#s created via the STRUCTURE or SCREEN commands must be searched in the structures files separately from text terms or profiles. The L# answer sets from structure searches can be used in crossover searches and can be combined with text terms.

=> d l1 1-10

L1 HAS NO ANSWERS

L1 STR

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

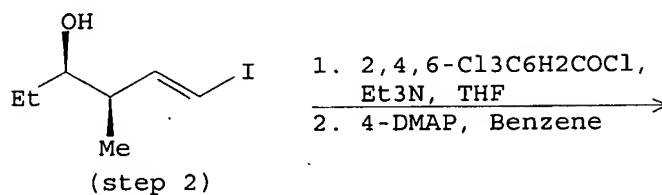
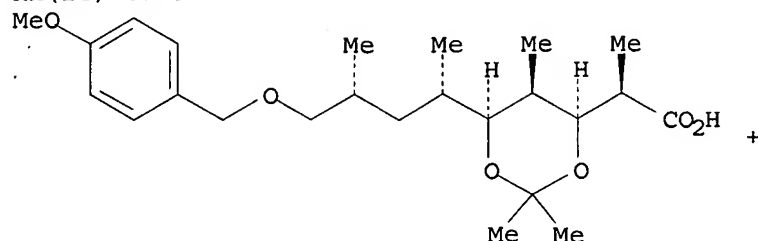
10/923,271

Structure attributes must be viewed using STN Express query preparation.

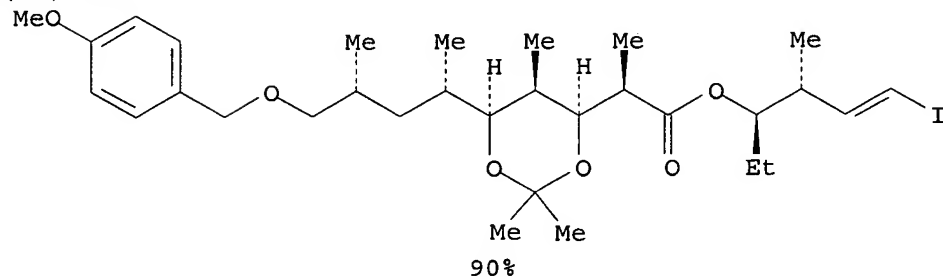
=> d 12 1-10

L2 ANSWER 1 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(14) OF 91



RX(14) OF 91

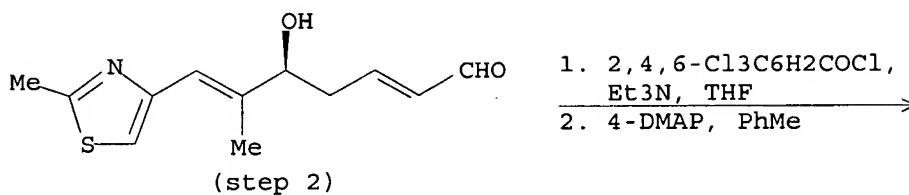
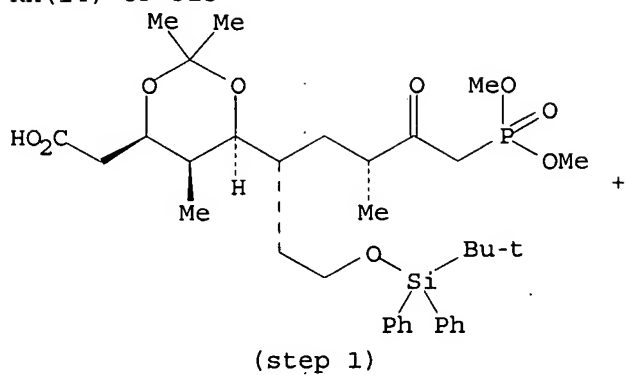


REF: Journal of Organic Chemistry, 70(18), 7267-7272; 2005  
CON: STAGE(1) 2 hours, room temperature  
STAGE(2) 24 hours, room temperature

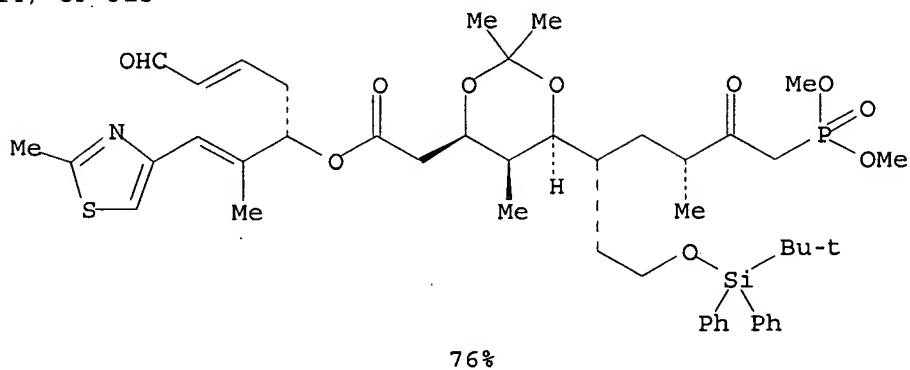
L2 ANSWER 2 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

10/923,271

RX(14) OF 315



RX(14) OF 315

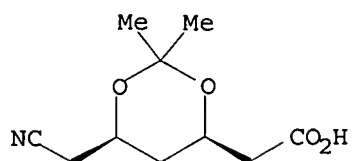


REF: Heterocycles, 64,, 333-345; 2004  
CON: STAGE(1) 1 hour, room temperature  
STAGE(2) 23 hours, room temperature

L2 ANSWER 3 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

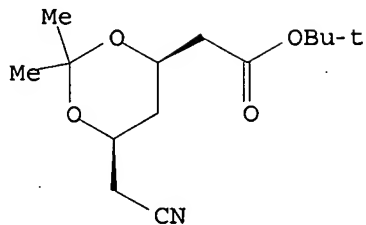
10/923,271

RX(11) OF 18 - 2 STEPS



1.1. PhMe  
1.2. (COCl)<sub>2</sub>  
2.1. t-BuOH,  
N-Methylmorpholine  
2.2. PhMe

Na



REF: PCT Int. Appl., 2004096788, 11 Nov 2004

NOTE: 1) first stage Dean Stark app.

CON: STEP(1.1) room temperature

STEP(1.2) 2.5 hours, room temperature; 4 hours, room temperature

STEP(2.1) room temperature

STEP(2.2) 30 minutes, room temperature; 12 hours,  
room temperature

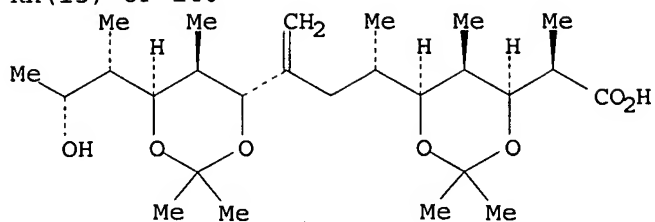
L2 ANSWER 4 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(38) OF 521 - REACTION DIAGRAM NOT AVAILABLE

L2 ANSWER 5 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

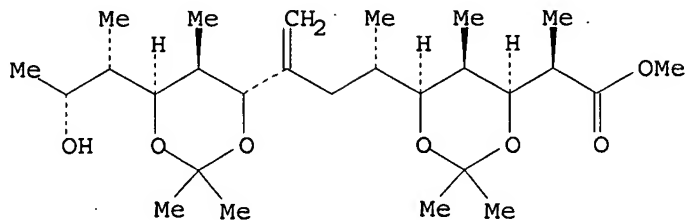
10/923,271

RX(15) OF 140



(step 1)

1. Me<sub>3</sub>SiCH:N<sub>2</sub>,  
Benzene, MeOH,  
Hexane  
2. AcOH, Water



100%

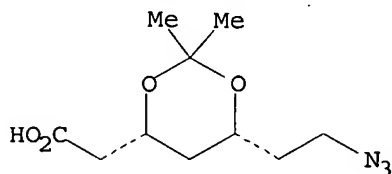
REF: Tetrahedron, 60(21), 4693-4704; 2004

CON: STAGE(1) 45 minutes, room temperature

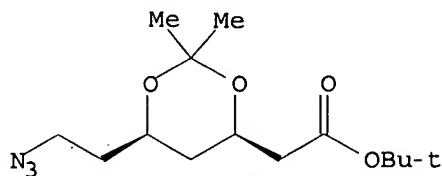
STAGE(2) room temperature

L2 ANSWER 6 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(8) OF 43



(Boc)<sub>2</sub>O, 4-DMAP



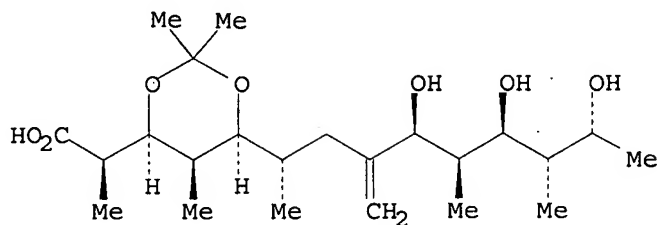
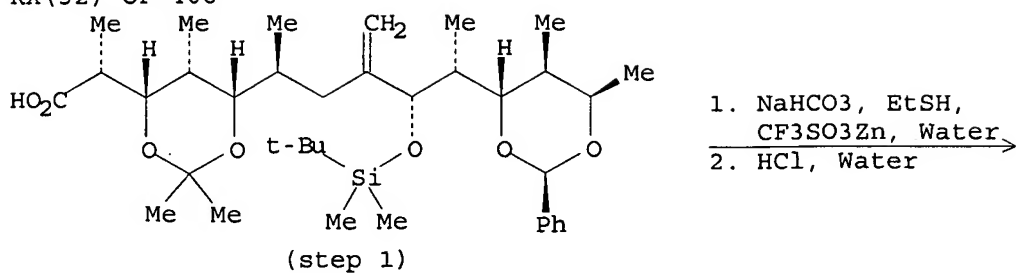
86%

REF: Tetrahedron Letters, 45(11), 2439-2441; 2004

L2 ANSWER 7 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

10/923,271

RX(32) OF 408

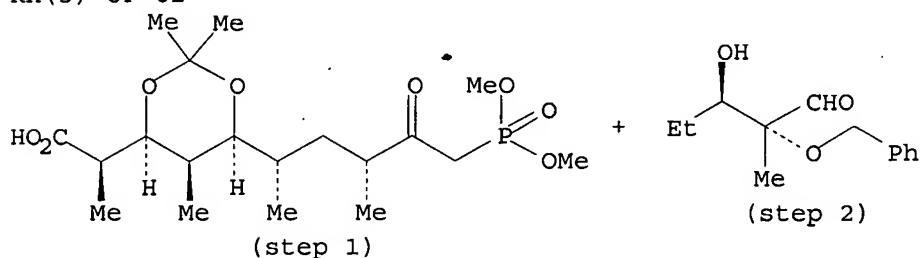


REF: Journal of the American Chemical Society, 124(43), 12806-12815; 2002

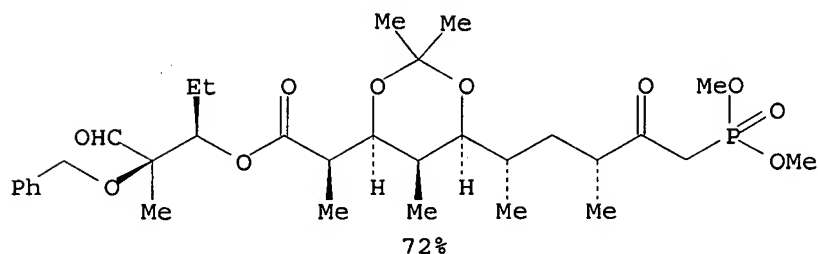
CON: STAGE(1) 2 hours; 0 deg C; 13 hours, room temperature  
STAGE(2) pH 4

L2 ANSWER 8 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(5) OF 62



1. 4-DMAP, Et3N, PhMe



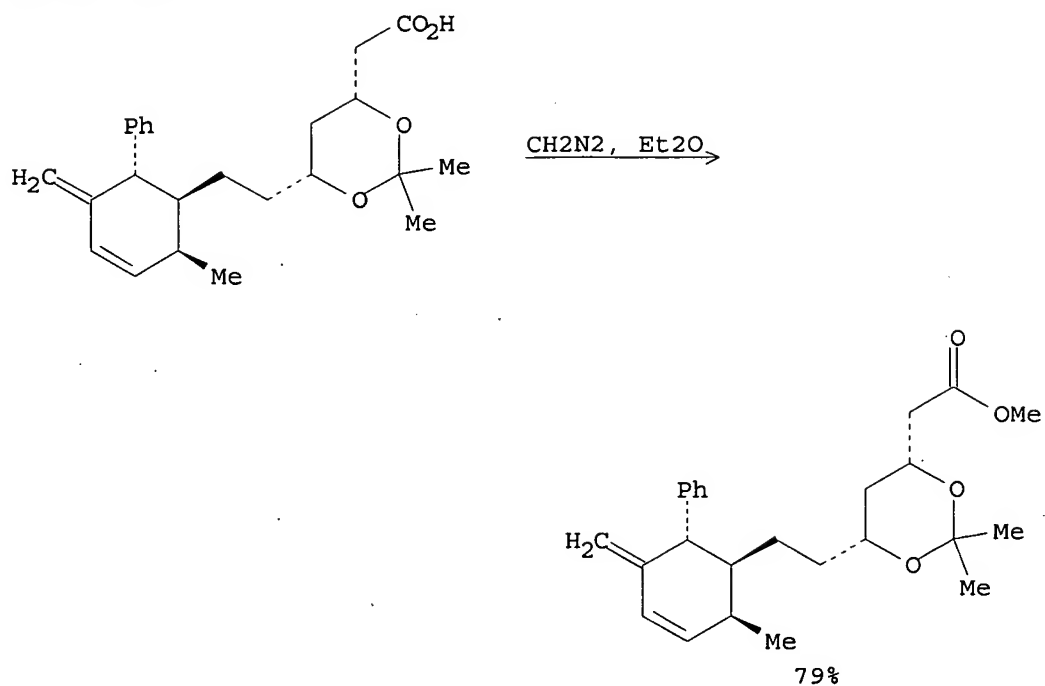
REF: Heterocycles, 46,, 105-110; 1997

NOTE: key step

10/923,271

L2 ANSWER 9 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(10) OF 66

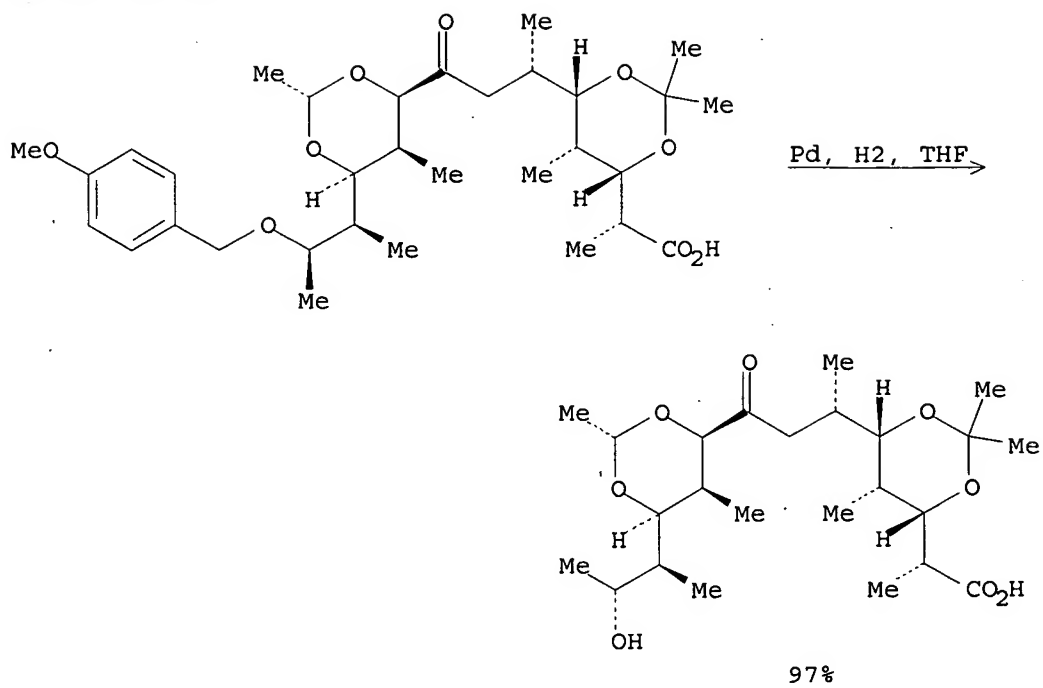


REF: Journal of Organic Chemistry, 60(17), 5532-6; 1995

L2 ANSWER 10 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

10/923,271

RX(39) OF 654



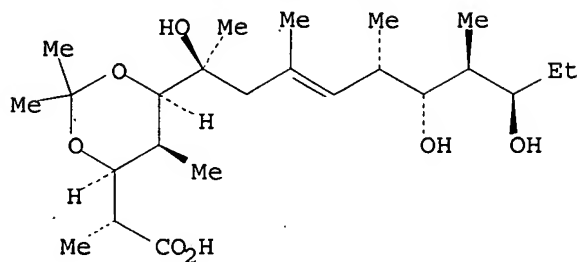
REF: Journal of the American Chemical Society, 116(25), 11287-314;  
1994

=> d 12 11-23

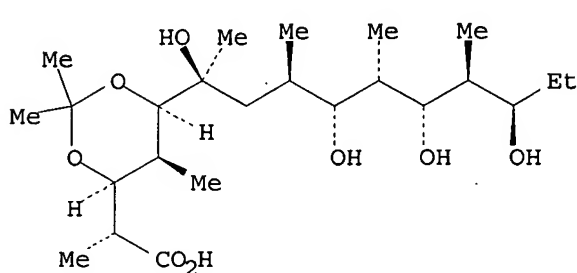
L2 ANSWER 11 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

10/923,271

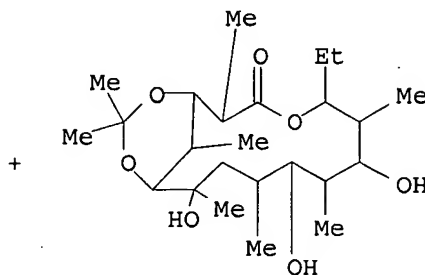
RX(29) OF 229 - 2 STEPS



1.1. Et3N,  
2,4,6-Cl3C6H2COC1,  
THF  
1.2. 4-DMAP, PhMe  
2.1. BH3-Me2S, THF  
2.2. H2O2, NaOH,  
Water



13%



stereoisomers

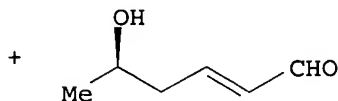
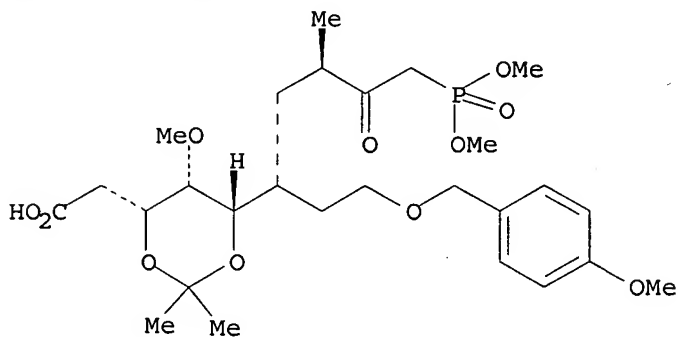
72%

REF: Journal of the American Chemical Society, 113(3), 910-23; 1991

NOTE: 1) 2nd step thermal

L2 ANSWER 12 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

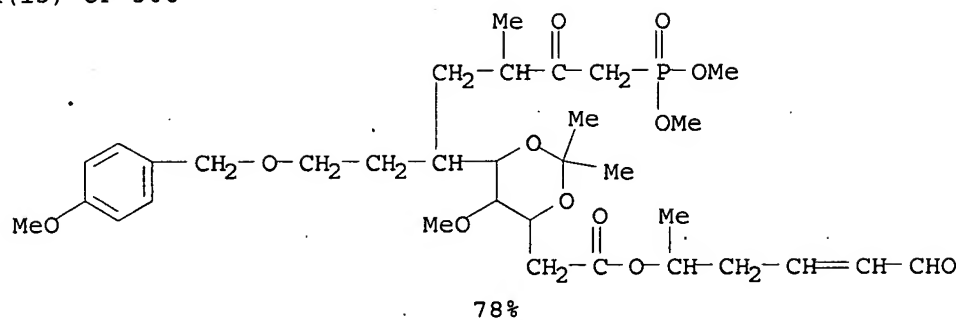
RX(13) OF 306



4-DMAP, R:84033-23-8,  
PhMe

10/923,271

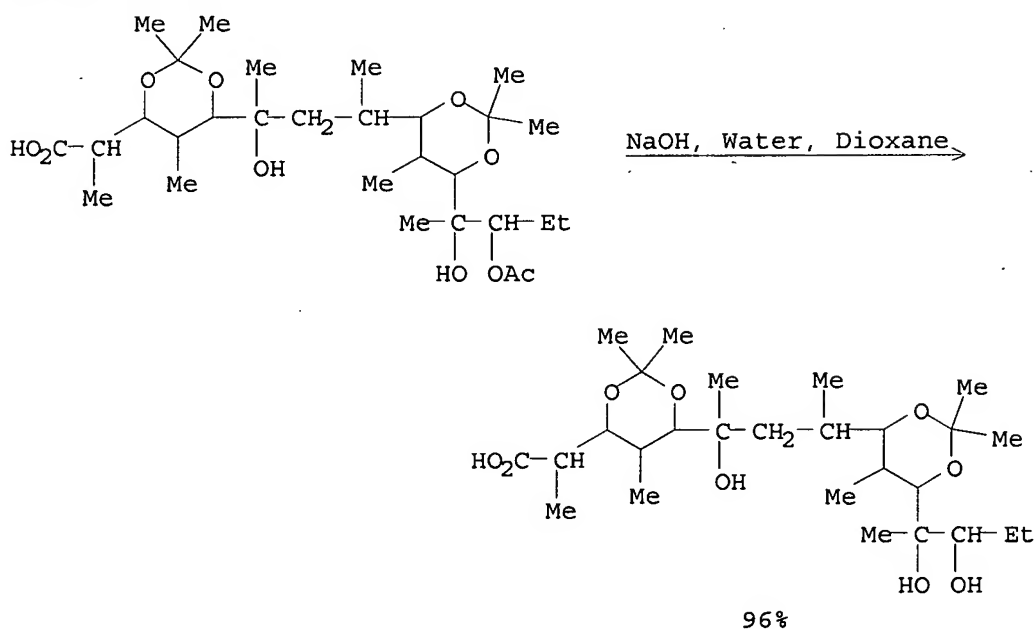
RX(13) OF 306



REF: Heterocycles, 31(1), 5-8; 1990

L2 ANSWER 13 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(65) OF 715

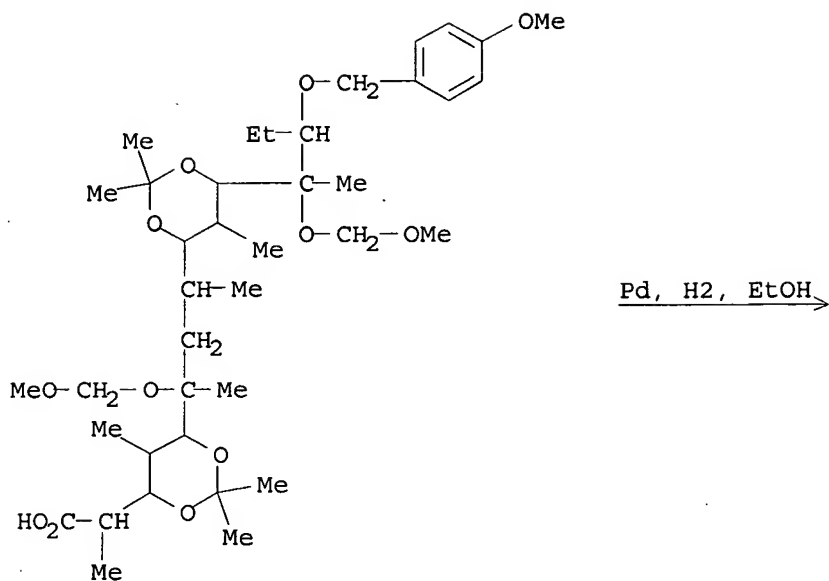


REF: Bulletin of the Chemical Society of Japan, 62(8), 2618-35; 1989

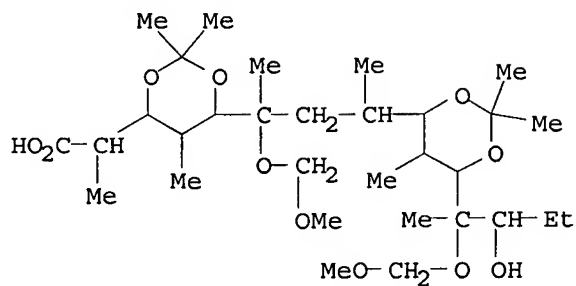
L2 ANSWER 14 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

10/923,271

RX(18) OF 319



RX(18) OF 319



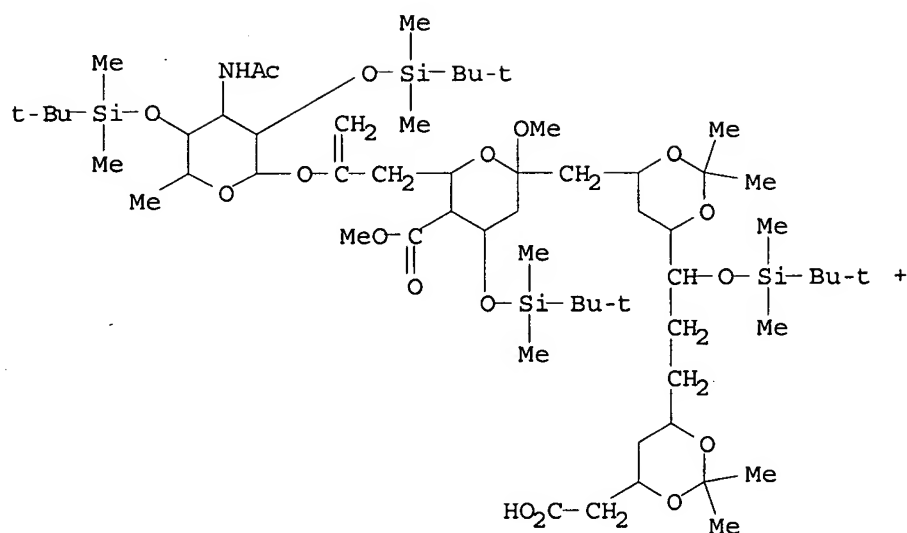
99%

REF: Chemical & Pharmaceutical Bulletin, 37(5), 1167-72; 1989

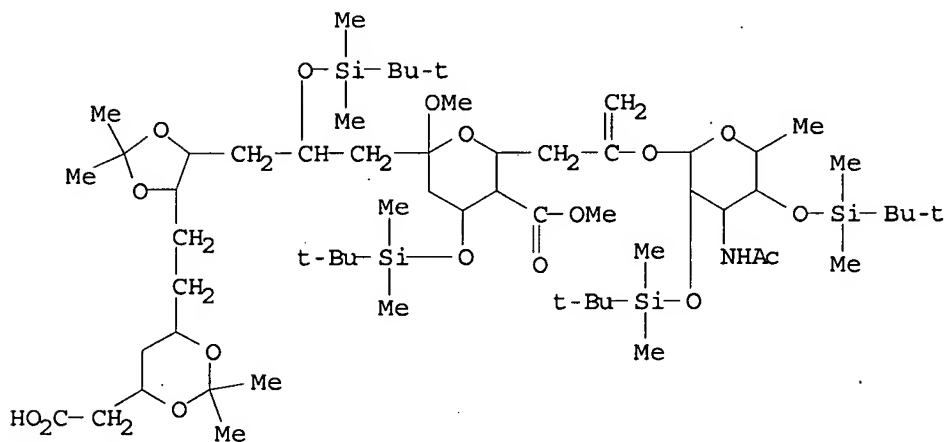
L2 ANSWER 15 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

10/923,271

RX(10) OF 179



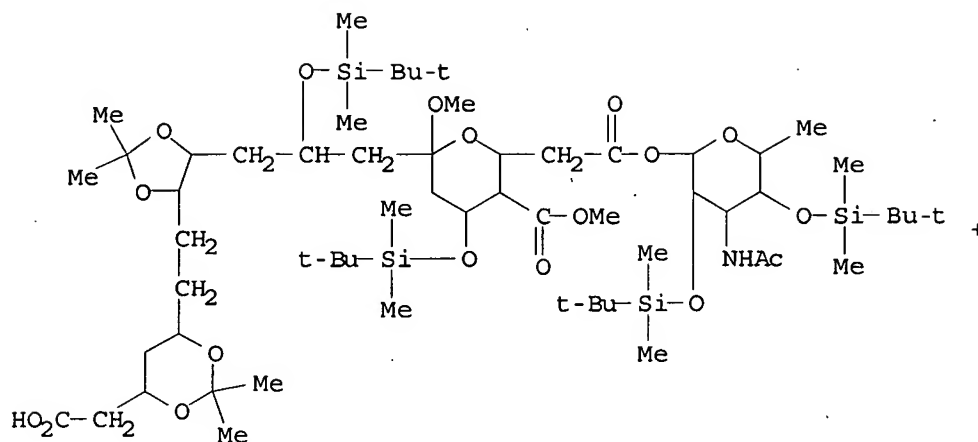
RX(10) OF 179



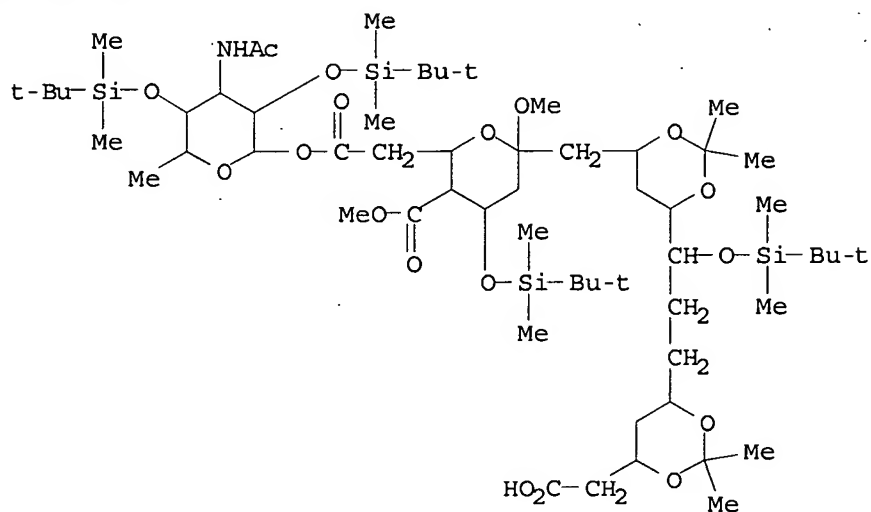
Ozone, MeOH, CH<sub>2</sub>Cl<sub>2</sub>→

10/923,271

RX(10) OF 179



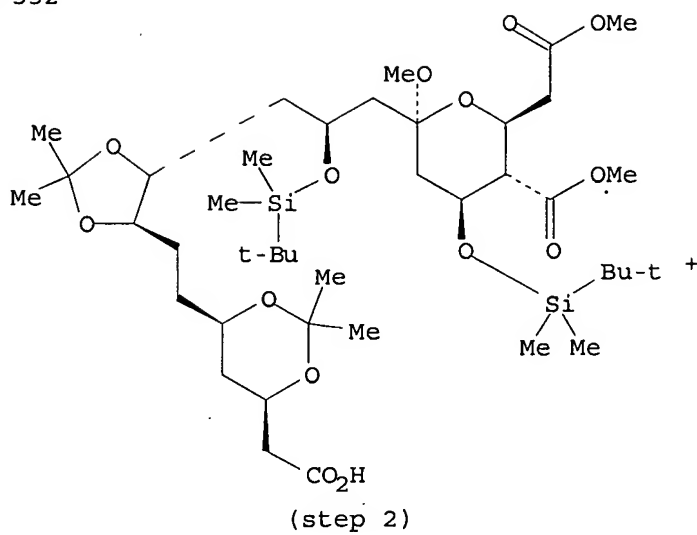
RX(10) OF 179



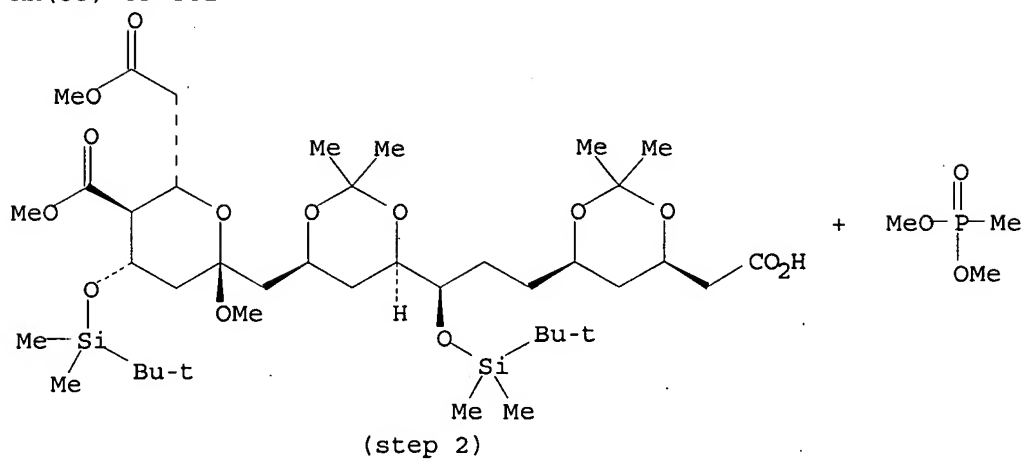
REF: Journal of the American Chemical Society, 110(14), 4660-72;  
1988

L2 ANSWER 16 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX (35) OF 552

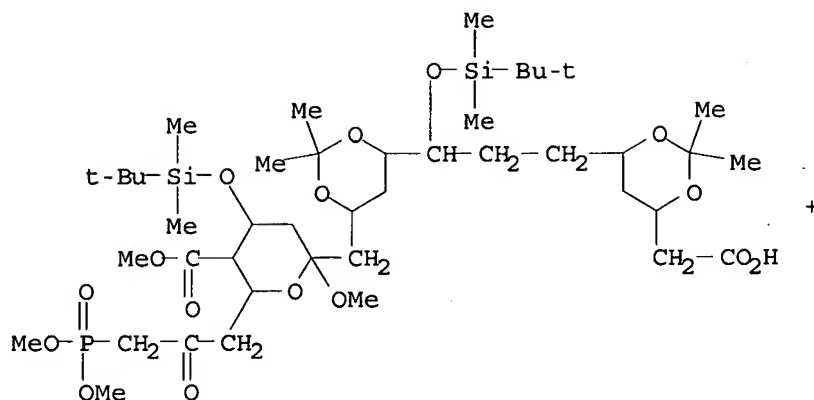


RX (35) OF 552

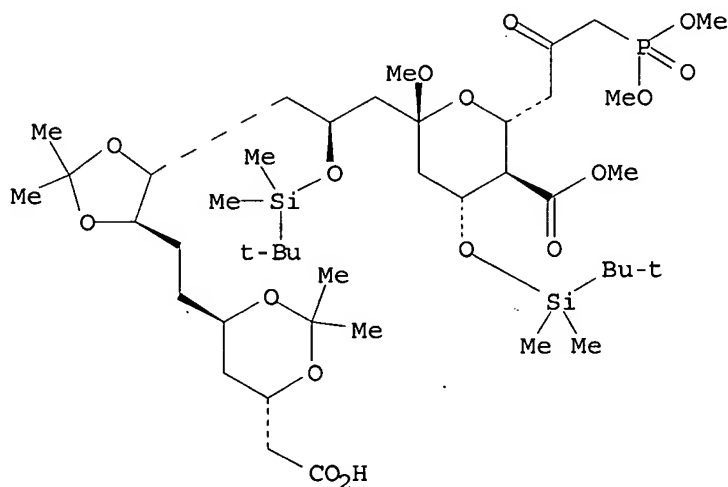

$$\xrightarrow[2. \text{ THF}]{1. \text{ BuLi, THF}}$$

10/923,271

RX(35) OF 552



RX(35) OF 552

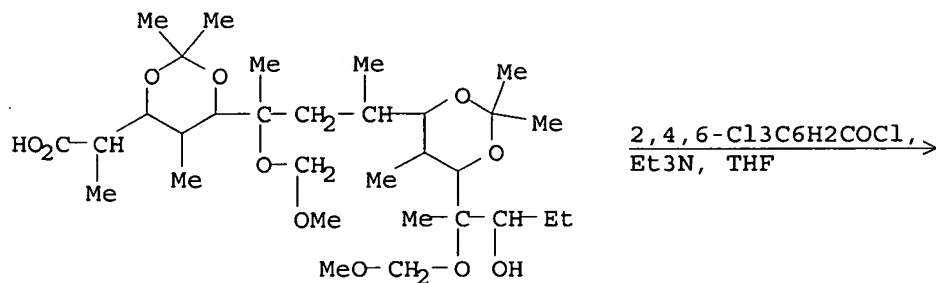


REF: Journal of the American Chemical Society, 110(14), 4685-96;  
1988

NOTE: 62% overall

L2 ANSWER 17 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(32) OF 451

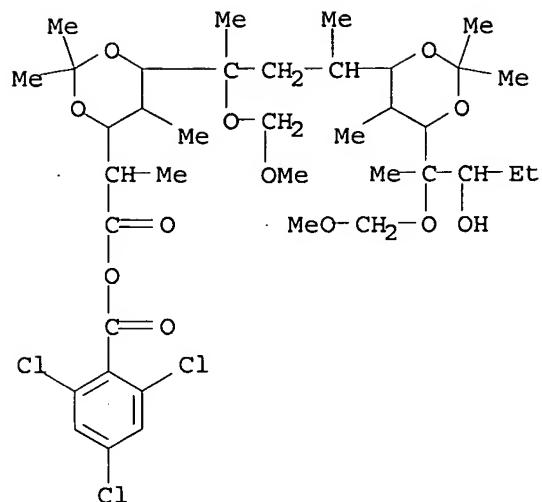


TOh

14/01/2008

10/923,271

RX(32) OF 451



REF: Tetrahedron Letters, 28(39), 4569-72; 1987

L2 ANSWER 18 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

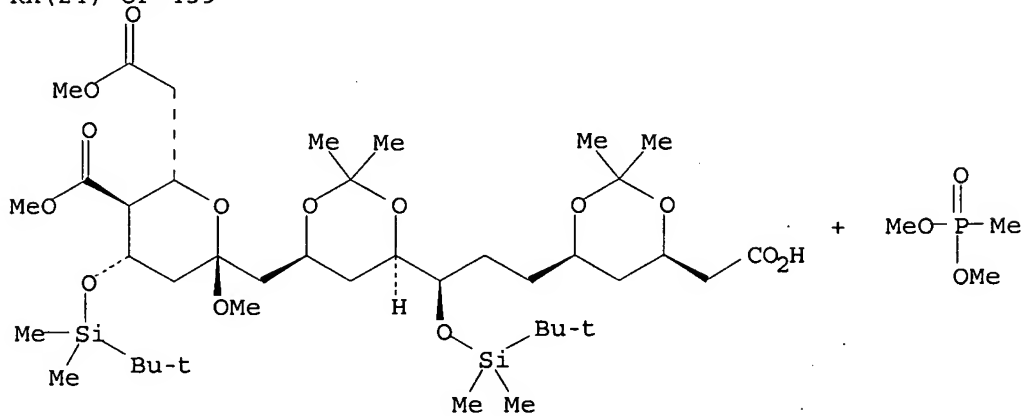
RX(47) OF 265 - REACTION DIAGRAM NOT AVAILABLE

L2 ANSWER 19 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(17) OF 258 - REACTION DIAGRAM NOT AVAILABLE

L2 ANSWER 20 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(24) OF 439

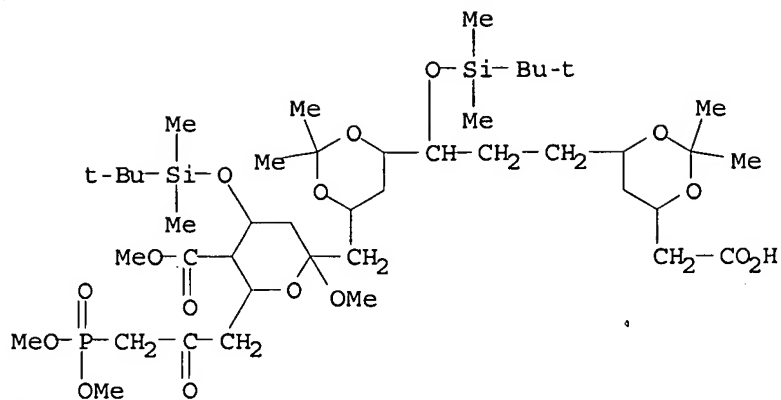


(step 2)  
stereoisomers

1. BuLi, THF →

10/923,271

RX(24) OF 439

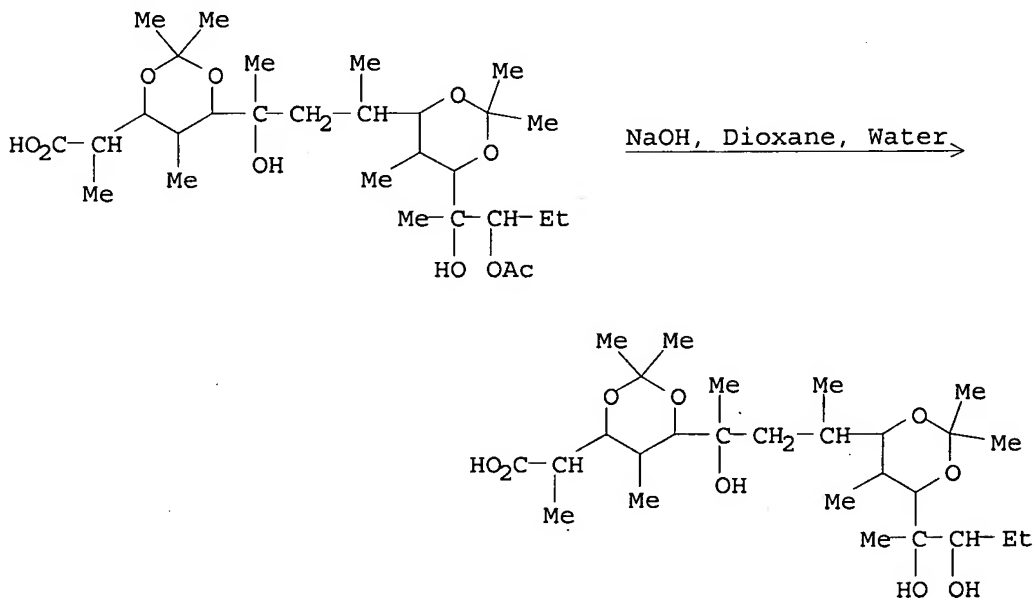


stereoisomers

REF: Journal of the American Chemical Society, 109(7), 2208-10; 1987  
NOTE: 62% OVERALL

L2 ANSWER 21 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

RX(18) OF 316

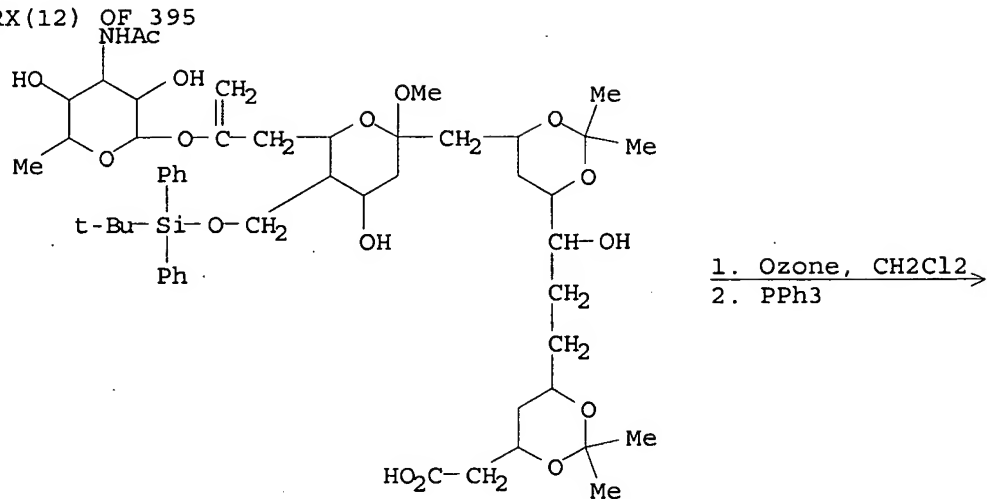


REF: Tetrahedron Letters, 27(16), 1815-18; 1986

L2 ANSWER 22 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

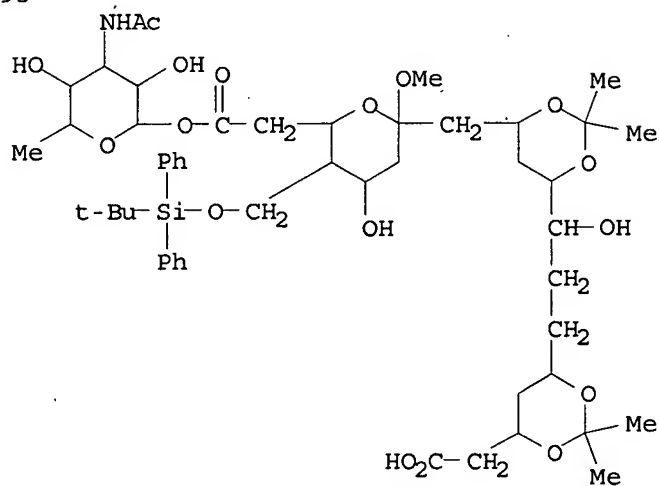
10/923,271

RX(12) OF 395



(step 1)  
stereoisomers

RX(12) OF 395



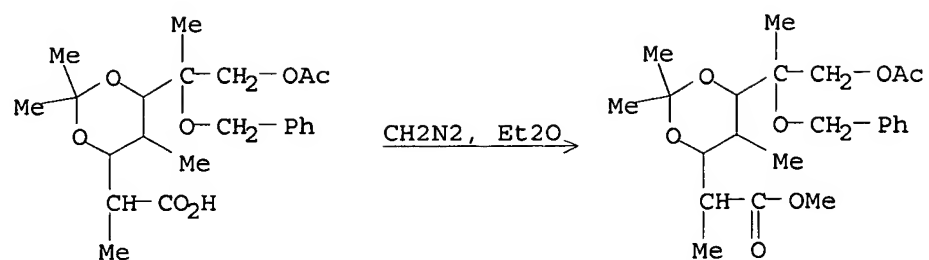
stereoisomers

REF: Journal of the Chemical Society, Chemical Communications, (5),  
413-16; 1986

L2 ANSWER 23 OF 23 CASREACT COPYRIGHT 2008 ACS on STN

10/923,271

RX(36) OF 459



REF: Journal of Organic Chemistry, 50(12), 2095-105; 1985

## Refine Search

### Search Results -

Terms	Documents
L6 and 549/375	24

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L7





### Search History

DATE: Monday, January 14, 2008    [Purge Queries](#)    [Printable Copy](#)    [Create Case](#)

Set Name   Query  
 side by side

Hit Count   Set Name  
                     result set

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ.*

<u>L7</u>	L6 and 549/375	24	<u>L7</u>
<u>L6</u>	L5 and ester and (alkali or alkaline earth metal )	7606	<u>L6</u>
<u>L5</u>	L4 and acid chloride	10463	<u>L5</u>
<u>L4</u>	dioxan\$8 with acet\$9	50277	<u>L4</u>
<u>L3</u>	L2 and acid chloride	11904	<u>L3</u>
<u>L2</u>	L1 and ester and (alkali or alkaline earth metal )	39146	<u>L2</u>
<u>L1</u>	dioxan\$8 same acet\$9	78858	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 10 of 24 returned.

☐ 1. Document ID: US 20060122407 A1

L7: Entry 1 of 24

File: PGPB

Jun 8, 2006

PGPUB-DOCUMENT-NUMBER: 20060122407

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060122407 A1

TITLE: Process for the preparation of dioxane acetic acid esters

PUBLICATION-DATE: June 8, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bakel Van; Hermanus Carolus Catherina Karel	Helden		NL
Callant; Dominique Monique Charles	Houthalen		BE
Kooistra; Jacob Hermanus Mattheus Hero	Venlo		NL
Maas; Peter Johannes Dominicus	Puth		NL

US-CL-CURRENT: 549/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 20050148785 A1

L7: Entry 2 of 24

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050148785

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050148785 A1

TITLE: Process for the preparation of 2-(6-substituted-1,-3-dioxane-4-YL) acetic acid derivatives

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kooistra, Jacob Hermanus Mattheus Hero	Venlo		NL
Zeegers, Hubertus Josephus Marie	Baarlo		NL
Mink, Daniel	Eupen		BE
Mulders, Joannes Maria Cornelis Antonius	Geleen		NL

US-CL-CURRENT: 549/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20030158426 A1

L7: Entry 3 of 24

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158426

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158426 A1

TITLE: Process for the preparation of 2-(6-substituted-1,-3-dioxane-4-yl)acetic acid derivatives

PUBLICATION-DATE: August 21, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kooistra, Jacob Hermanus Mattheus Hero	Ba Venlo		NL
Zeegers, Hubertus Josephus Marie	Baarlo		NL
Mink, Daniel	Belgium		DE
Mulders, Joannes Maria Cornelis Antonius	Geleen		NL

US-CL-CURRENT: 549/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 4. Document ID: US 6870059 B2

L7: Entry 4 of 24

File: USPT

Mar 22, 2005

US-PAT-NO: 6870059

DOCUMENT-IDENTIFIER: US 6870059 B2

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for the preparation of 2-(6-substituted-1,-3-dioxane-4-yl)acetic acid derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 5072008 A

L7: Entry 5 of 24

File: USPT

Dec 10, 1991

US-PAT-NO: 5072008

DOCUMENT-IDENTIFIER: US 5072008 A

TITLE: Manufacture of lactol derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 6. Document ID: US 5053507 A

L7: Entry 6 of 24

File: USPT

Oct 1, 1991

US-PAT-NO: 5053507

DOCUMENT-IDENTIFIER: US 5053507 A

\*\* See image for Certificate of Correction \*\*

TITLE: Optically active pyrimidines derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 7. Document ID: US 5047412 A

L7: Entry 7 of 24

File: USPT

Sep 10, 1991

US-PAT-NO: 5047412

DOCUMENT-IDENTIFIER: US 5047412 A

TITLE: Alkene derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 8. Document ID: US 4943384 A

L7: Entry 8 of 24

File: USPT

Jul 24, 1990

US-PAT-NO: 4943384

DOCUMENT-IDENTIFIER: US 4943384 A

TITLE: Cyclohexane derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 9. Document ID: US 4900846 A

L7: Entry 9 of 24

File: USPT

Feb 13, 1990

US-PAT-NO: 4900846

DOCUMENT-IDENTIFIER: US 4900846 A

TITLE: Process for making 1,3-dioxane derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw. De
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☐ 10. Document ID: US 4846998 A

L7: Entry 10 of 24

File: USPT

Jul 11, 1989

US-PAT-NO: 4846998

DOCUMENT-IDENTIFIER: US 4846998 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Cyclohexane derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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Terms			Documents		
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☐ 11. Document ID: US 4834905 A

L7: Entry 11 of 24

File: USPT

May 30, 1989

US-PAT-NO: 4834905

DOCUMENT-IDENTIFIER: US 4834905 A

TITLE: Ring compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 12. Document ID: US 4824858 A

L7: Entry 12 of 24

File: USPT

Apr 25, 1989

US-PAT-NO: 4824858

DOCUMENT-IDENTIFIER: US 4824858 A

TITLE: 1,3-Dioxolane-5-yl-hexenoic acid derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 13. Document ID: US 4745198 A

L7: Entry 13 of 24

File: USPT

May 17, 1988

US-PAT-NO: 4745198

DOCUMENT-IDENTIFIER: US 4745198 A

TITLE: 1,3-dioxan-5-ylalkenoic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 14. Document ID: US 4723037 A

L7: Entry 14 of 24

File: USPT

Feb 2, 1988

US-PAT-NO: 4723037

DOCUMENT-IDENTIFIER: US 4723037 A

TITLE: Process for making 1,3-dioxane derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 15. Document ID: US 4709030 A

L7: Entry 15 of 24

File: USPT

Nov 24, 1987

US-PAT-NO: 4709030

DOCUMENT-IDENTIFIER: US 4709030 A

TITLE: Novel liquid crystal mixtures

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 16. Document ID: US 4704399 A

L7: Entry 16 of 24

File: USPT

Nov 3, 1987

US-PAT-NO: 4704399

DOCUMENT-IDENTIFIER: US 4704399 A

TITLE: 1,3-dioxan-4-ylalkenoic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 17. Document ID: US 4704227 A

L7: Entry 17 of 24

File: USPT

Nov 3, 1987

US-PAT-NO: 4704227

DOCUMENT-IDENTIFIER: US 4704227 A

TITLE: Liquid crystal compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 18. Document ID: US 4668698 A

L7: Entry 18 of 24

File: USPT

May 26, 1987

US-PAT-NO: 4668698

DOCUMENT-IDENTIFIER: US 4668698 A

TITLE: [(4-phenyl-1,3-dioxan-cis-5-yl)alkyl]phenylalkanoic acid derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 19. Document ID: US 4627933 A

L7: Entry 19 of 24

File: USPT

Dec 9, 1986

US-PAT-NO: 4627933

DOCUMENT-IDENTIFIER: US 4627933 A

TITLE: Liquid crystalline phases containing alkylene-type bridges

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw D
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☐ 20. Document ID: US 4621901 A

L7: Entry 20 of 24

File: USPT

Nov 11, 1986

US-PAT-NO: 4621901

DOCUMENT-IDENTIFIER: US 4621901 A

TITLE: Novel liquid crystal mixtures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw D
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☐ 21. Document ID: US 4600528 A

L7: Entry 21 of 24

File: USPT

Jul 15, 1986

US-PAT-NO: 4600528

DOCUMENT-IDENTIFIER: US 4600528 A

TITLE: Decalin-carbonitriles

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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☐ 22. Document ID: US 4567197 A

L7: Entry 22 of 24

File: USPT

Jan 28, 1986

US-PAT-NO: 4567197

DOCUMENT-IDENTIFIER: US 4567197 A

TITLE: 1,3-Dioxan-5-ylalkenoic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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☐ 23. Document ID: US 4551264 A

L7: Entry 23 of 24

File: USPT

Nov 5, 1985

US-PAT-NO: 4551264

DOCUMENT-IDENTIFIER: US 4551264 A

TITLE: Polyhalogenoaromatic compounds for liquid crystal compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw. De
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☐ 24. Document ID: US 4335054 A

L7: Entry 24 of 24

File: USPT

Jun 15, 1982

US-PAT-NO: 4335054

DOCUMENT-IDENTIFIER: US 4335054 A

TITLE: Process for the preparation of alkenylbenzenecarboxylic acid derivatives and

alkenyl naphthalenecarboxylic acid derivatives

Full	Title	Citation	Front	Review	Classification	Date	Reference	Generate	Attachments	Claims	KWIC	Draw D
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